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SPREAD OF ALFALFA WEEVIL IN 1938

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Although scouting for alfalfa weevil during 1938 was again limited by available personnel and funds, the combined efforts of State and Federal workers resulted in discovery of infestations in 12 counties not hitherto known to be infested, distributed among 5 States (table 1). Details of this season's scouting by the personnel of the alfalfa weevil laboratory are summarized in table 2, showing 108,410 sweeps of an insect net taken in 228 fields located in 45 counties distributed among 8 Western States. Table 3 presents results of sweeping conducted in counties heretofore found infested.

Table 1.—Counties found infested by alfalfa weevil, 1938

State	County
Colorado .....	Pitkin <sup>1/</sup> San Miguel <sup>1/</sup> Weld
Montana .....	Big Horn
Nebraska .....	Banner <sup>2/</sup> Kimball <sup>2/</sup>
Oregon .....	Douglas
Wyoming .....	Big Horn <sup>3/</sup> Hot Springs <sup>3/</sup> Laramie Park <sup>4/</sup> Washakie <sup>3/</sup>

<sup>1/</sup> Reported by J. H. Newton, of the Colorado department of agriculture.

<sup>2/</sup> Reported by the Bureau of Entomology and Plant Quarantine, in cooperation with L. M. Gates, of the Nebraska department of agriculture and inspection.

<sup>3/</sup> Reported by the Bureau of Entomology and Plant Quarantine, in cooperation with C. L. Corkins and Margaret Greenwald, Wyoming State entomologist's office.

<sup>4/</sup> Reported by C. L. Corkins, Wyoming State entomologist.

Table 2.--Detailed results of alfalfa weevil scouting, 1938

State	County	Fields	Total	Weevils found		Fields
		swept	sweeps	Larvae	Adults	infested
		Number	Number	Number	Number	Number
California	Amador <u>1</u> /	2	1,500	0	0	---
	Butte	7	3,500	0	0	---
	Calaveras	<u>2</u> /0	--	-	-	---
	Colusa	7	3,500	0	0	---
	Eldorado	<u>2</u> /0	--	-	-	---
	Fresno	8	3,400	0	0	---
	Glenn	6	3,000	0	0	---
	Humboldt	2	1,000	0	0	---
	Kings	3	1,250	0	0	---
	Lake	5	2,500	0	0	---
	Madera	<u>2</u> /8	4,250	0	0	---
	Mariposa	<u>2</u> /0	4,250	0	0	---
	Nevada	<u>2</u> /0	--	-	-	---
	Placer	1	500	0	0	---
	Sacramento	10	5,500	0	0	---
	San Benito <u>1</u> /	3	1,000	0	0	---
	Shasta	10	5,000	0	0	---
	Siskiyou	6	3,000	0	0	---
	Solano <u>3</u> /	9	5,000	0	0	---
	Sutter	5	2,500	0	0	---
	Tehama	9	4,500	0	0	---
	Trinity	<u>2</u> /2	1,000	0	0	---
	Tuolumne	<u>2</u> /0	--	-	-	---
	Yolo <u>3</u> /	11	7,500	0	0	---
	Yuba	4	2,000	0	0	---
Colorado	<u>4</u> /					
	Weld	4	3,000	4	0	1
Montana	Big Horn	5	2,650	7	0	1
	Carbon	1	1,000	0	0	---
	Carter	1	400	0	0	---
	Powder River	4	2,000	0	0	---
	Yellowstone	2	1,500	0	0	---
Nebraska	<u>5</u> /					
	Banner	4	2,275	7	0	2
	Cheyenne	1	300	0	0	---
	Kimball	3	2,050	5	0	1
	Morrill	7	3,300	0	0	---
New Mexico	Scottsbluff	11	4,375	121	3	6
	<u>6</u> /					
New Mexico	San Juan	--	--	--	--	--

Table 2.—Detailed results of alfalfa weevil scouting, 1938 (Cont'd.)

State	County	Fields:Total		Weevils found:		Fields
		swept	sweeps	Larvae	Adults	infested
		Number	Number	Number	Number	Number
Oregon	Douglas	9	4,200	2	0	2
	Klamath	11	5,500	0	0	--
South Dakota	Butte	3	1,800	0	0	--
	Lawrence	3	1,350	0	0	--
	Meade	2	1,175	0	0	--
	Pennington	3	1,250	0	0	--
	Shannon	2	850	0	0	--
Wyoming <sup>1/</sup>	Albany	3	1,250	0	0	--
	Big Horn	7	2,250	Many	Several	4
	Crook	2	1,150	0	0	--
	Hot Springs	4	70	Many	Several	4
	Laramie	1	600	4	0	1
	Washakie	3	90	Many	1	3

- <sup>1/</sup> In cooperation with A. E. Michelbacher, of the University of California.
- <sup>2/</sup> No alfalfa found in county.
- <sup>3/</sup> In cooperation with M. L. Jones, of the California department of agriculture.
- <sup>4/</sup> J. H. Newton, of the Colorado department of agriculture, found alfalfa weevil in San Miguel and Pitkin Counties and scouted with negative results the following Colorado counties: Adams, Alamosa, Arapahoe, Boulder, Crowley, Denver, Dolores, Douglas, El Paso, Fremont, Huerfano, Jefferson, La Plata, Larimer, Morgan, Pueblo, Rio Grande, Weld.
- <sup>5/</sup> In cooperation with L. M. Gates, of the Nebraska department of agriculture and inspection.
- <sup>6/</sup> No scouting by alfalfa weevil laboratory but J. R. Eyer, entomologist of New Mexico Experiment Station, reports that a careful survey for alfalfa weevil was made during 1938 near Aztec, in San Juan County, with negative results.
- <sup>7/</sup> Margaret Greenwald, of the Wyoming State entomologist's office, found alfalfa weevil in Park County, Wyo., and cooperated with the Bureau of Entomology and Plant Quarantine in scouting Big Horn, Hot Springs, and Washakie Counties.



Table 3.--Sweeping alfalfa fields in counties previously reported infested  
by alfalfa weevil, 1938

State	County	Fields: Number	Sweeps: Number	Result
California <sup>1/</sup>	Alameda	--	--	Occurrence verified
	Contra Costa	--	--	Weevil not found
	Merced	8	7,500	Do. <sup>1/</sup>
	San Joaquin	--	--	Occurrence verified
	Santa Clara	--	--	Do.
	Stanislaus	3	--	Do.
Colorado <sup>2/</sup>	Montezuma	22	11,475	Do.
Nebraska <sup>3/</sup>	Box Butte	3	2,750	Do.
	Dawes	1	700	Weevil not found
Nevada	Clark	23	31,800	Do.
Oregon	Josephine	9	3,300	Occurrence verified <sup>4/</sup>

<sup>1/</sup>In cooperation with A. E. Michelbacher, of the University of California, except Merced County, in which State employees verified alfalfa weevil occurrence.

<sup>2/</sup>J. H. Newton, of the Colorado department of agriculture, also swept in Montrose, Montezuma, Eagle, Gunnison, and Routt Counties.

<sup>3/</sup>In cooperation with L. M. Gates, of the Nebraska department of agriculture and inspection.

<sup>4/</sup>Weevil also found in southern part of county.